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File 348:EUROPEAN PATENTS 1978-2003/Oct W01  
(c) 2003 European Patent Office  
File 349:PCT FULLTEXT 1979-2002/UB=20031009,UT=20031002  
(c) 2003 WIPO/Univentio  
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200366  
(c) 2003 Thomson Derwent  
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Set	Items	Description
S1	1932	AU=(JONES, K? OR JONES J?)
S2	245	DIGIMARC
S3	0	S1 AND WATERMARK?(10N)GATEWAY?
S4	211	(S1 OR S2) AND WATERMARK?
S5	8	S4 AND GATEWAY?

5/5,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01310674

**Method and system for content commercialization**  
**Verfahren und System zum Kommerzialisieren von Inhalten**  
**Methode et systeme pour la commercialisation de contenus**

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PATENT (CC, No, Kind, Date): EP 1120731 A2 010801 (Basic)

APPLICATION (CC, No, Date): EP 2001300655 010125;

PRIORITY (CC, No, Date): US 493023 000127

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60; G06F-001/00

ABSTRACT EP 1120731 A2

A method for controlling the use and re-use of digital images,  
including the steps of providing by a first server computer to a client  
computer a digital image file including a digital image and including  
goods and services data, the goods and services data determining at least  
one link to at least one web page, displaying the digital image on the  
client computer, in response to a first interactive command performed by  
a user on the displayed digital image, further displaying the at least  
one link to at least one web page, and, in response to a second  
interactive command performed by the user on the displayed at least one  
link, delivering by a second server computer to the client computer, a  
web page indicated by the at least one link. A system is also described  
and claimed.

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010801 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200131	2192
SPEC A	(English)	200131	7157
Total word count - document A			9349
Total word count - document B			0
Total word count - documents A + B			9349

...SPECIFICATION web publishers.

Prior art techniques for protecting digital images include the  
embedding of invisible digital **watermarks** within images, so that copies  
of protected images can be identified and traced. **Digimarc** Corporation  
of Lake Oswego, OR embeds hidden messages within pixel data for

identifying protected images, and tracks their distribution over the Internet to monitor potential copyright infringement. **Digimarc** images carry unique IDs that link to predetermined locations on the web. **Digimarc** images are compatible with standard image formats, such as JPEG, and can be opened and displayed by standard image readers. However, when opened with a **Digimarc** reader, the images are displayed together with a "Web look up" button that enables a user to identify the sources of the images. **Digimarc** technology is described in U.S. Patents Nos. 5,862,260, 5,850,481, 5...

...5,745,604, 5,721,788, 5,710,834 and 5,636,292. Information about **Digimarc** is available on the web at <http://www.digimarc.com>.

These **watermarking** techniques are useful in thwarting digital image piracy to the extent that they trace pirated...

...R) is a software application of Intellectual Protocols, LLC of Nanuet, NY that uses digital **watermarking** and fingerprinting to protect images, and includes a Java applet that disables the ability to...index 0 as default values for the arrays.

The cgi script PicPropsJS.pl is a **gateway** to the channel database. It generates the channel data for Imagel. As with the previous...

5/5,K/2 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00961419 \*\*Image available\*\*

**METHOD AND APPARATUS FOR GENERATING AND MARKETING SUPPLEMENTAL INFORMATION  
PROCEDE ET APPAREIL DE PRODUCTION ET MARKETING D'INFORMATION SUPPLEMENTAIRE**  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200295527 A2 20021128 (WO 0295527)

Application: WO 2002US13156 20020424 (PCT/WO US0213156)

Priority Application: US 2001286173 20010424

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 29172

#### English Abstract

The invention includes a process for providing incentives to sources to participate in interviews. Transcripts of interviews conducted according to a protocol are created that are saleable via, for example, the Internet. The protocol includes inserting tags into the recording to identify characteristics of the content of the recording. Further, the invention provides a method for redacting the recording using the inserted tags to generate a saleable version of the recording. The tags are used to exclude certain inappropriate content and to generate meta-data regarding the recording for marketing the recording. In some embodiments, interview participants may be compensated based upon sales of the recordings. Some embodiments of the invention include a recording device, a controller, and a user device. The recording device may be used to record an interview session between an interviewer and an interviewee. The recording device may communicate with the controller to convey the raw transcript of the interview session. The controller may include redacting software for modifying the interview transcript, and a voice recognition module for assisting in the redaction process. The voice recognition module may also assist in the creation of meta-tags describing the modified recording of the interview. The controller may further comprise a server for hosting Web pages. A user device in communication with the controller via the Internet may allow a user to peruse Web pages displaying the meta-tags and links that allow purchase of copies of associated interesting portions of the redacted interview transcripts as hosted by the controller.

#### French Abstract

L'invention concerne un procede de mise en place d'incitations pour que des sources participent a des entretiens. Des transcriptions d'entretiens menes selon un protocole sont creees et peuvent etre mises en vente via l'Internet, par exemple. Le protocole comprend l'insertion de reperes dans l'enregistrement permettant d'identifier des caracteristiques du contenu de l'enregistrement. L'invention concerne, en outre, un procede de redaction de l'enregistrement par utilisation des reperes inseres afin de produire une version commercialisable de l'enregistrement. Les reperes sont utilises afin d'exclure certains contenus non appropries et de produire des metadonnees concernant l'enregistrement en vue de sa commercialisation. Dans certaines realisations, les participants aux entretiens peuvent etre defrayeres sur la base des ventes des enregistrements. Certaines realisations de l'invention comprennent un dispositif d'enregistrement, une unite de commande et un dispositif utilisateur. Le dispositif d'enregistrement peut etre utilise afin d'enregistrer une session d'entretien entre un interviewer et un interviewe. Le dispositif d'enregistrement peut communiquer avec l'unite de commande afin d'acheminer la transcription brute de la session d'entretien. L'unite de commande peut comprendre un logiciel de redaction

destine a modifier la transcription de l'entretien, et un module de reconnaissance vocale destine a assister le processus de redaction. Le module de reconnaissance vocale peut aussi aider a la creation de reperes meta decrivant l'enregistrement modifie de l'entretien. L'unite de commande peut aussi comprendre un serveur destine a heberger des pages web. Un dispositif utilisateur en communication avec l'unite de commande, via l'Internet, peut permettre a un utilisateur de parcourir des pages web affichant les reperes meta et des liens qui permettent l'achat de copies de portions interessantes associees des transcriptions de l'entretien redige hebergees par l'unite de commande.

Legal Status (Type, Date, Text)

Publication 20021128 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... in FIG.

IB allows the third-party server I IO to serve as a single **gateway** between the nodes that will typically be operated by the owners of the information and...or over an online data network including commercial online service providers, bulletin board systems, routers, **gateways**, and the like. In yet other embodiments, the devices may communicate with the controller 102...an interview freely available to the whole world. In other embodiments, a digital I O **watermark** is placed in the sound file. Digital **watermarking** is a well-known technology enabled by companies such as **Digimarc** (<http://www.digimarc.com/>).

With digital **watermarking**, a sound file may be imperceptibly altered so as to contain embedded information about the 1 5 a digital **watermark** containing the consumer's name. If the consumer later tries to post a copy of the same file on the Web, the controller 102 would recognize the digital **watermark** in the file and may place sanctions on the consumer. There are many possible sanctions...still other embodiments, the digitized transcript of the interview may be digitally timestamped, or digitally **watermarked**. Many other ways of discouraging alterations are possible.

Audio interviews are one type of content...

Claim

... The method of claim 68 wherein discouraging illegal copying and distribution includes inserting a digital **watermark** in the interview transcript.

5/5,K/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00927890 \*\*Image available\*\*

**EFFICIENT INTERACTIVE TV**

**TELEVISION INTERACTIVE FONCTIONNELLE**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200262009 A1 20020808 (WO 0262009)  
Application: WO 2002US2572 20020128 (PCT/WO US0202572)  
Priority Application: US 2001265392 20010130; US 2001270782 20010220; US  
2001276543 20010315

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-009/00

International Patent Class: H04L-009/32; H04N-007/173

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12818

English Abstract

Content identifiers are provided to uniquely identify content, or a subset of content. The content identifiers are used to index corresponding interactive data. The interactive data may be maintained in a central base (106), or may be distributed to routers (104) in various subsets. In one embodiment, a set-top box (102) receives content in an interactive TV system. The content is digitally **watermarked** to include content identifiers. The set-top box (102) includes a **watermark** decoder, which detects the **watermark** identifier. The identifier is used to access information, such as interactive data (108). The interactive data (108) is then used to access interactive content. In another embodiment, interactive data (108) and/or content are pushed to the set-top box. In addition, the context of the situation can be communicated to improve the interactive experience.

French Abstract

Le systeme decrit comprend des identificateurs de contenu permettant d'identifier de maniere specifique un contenu ou un sous-ensemble de contenu. Ces identificateurs de contenus permettent l'indexation des donnees interactives correspondantes. Les donnees interactives peuvent etre conservees dans une base (106) de donnees centrale ou peuvent etre distribuees a des routeurs (104) en differents sous-ensembles. Dans un mode de realisation, un decodeur (102) recoit un contenu dans un systeme de television interactive. Ce contenu est marque au moyen d'un filigrane numerique comprenant les identificateurs de contenu. Le decodeur (102) est equipe d'un decodeur de filigrane qui detecte l'identificateur filigrane. L'identificateur donne acces a des informations telles que des donnees (108) interactives. Ces donnees (108) interactives sont a leur tour utilisees pour acceder a un contenu interactif. Dans un mode de

realisation different, les donnees (108) interactives et/ou le contenu sont charges dans le decodeur. Pour ameliorer l'experience interactive, le contexte d'une situation peut en outre etre communique.

Legal Status (Type, Date, Text)

Publication 20020808 A1 With international search report.

Publication 20020808 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20030116 Request for preliminary examination prior to end of 19th month from priority date

Patent Applicant/Assignee:

**DIGIMARC** CORPORATION...

Fulltext Availability:

Detailed Description

Claims

English Abstract

...set-top box (102) receives content in an interactive TV system. The content is digitally **watermarked** to include content identifiers. The set-top box (102) includes a **watermark** decoder, which detects the **watermark** identifier. The identifier is used to access information, such as interactive data (108). The interactive...

Detailed Description

... display.

5/5,K/4 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00894441 \*\*Image available\*\*

**PORTABLE DEVICES AND METHODS EMPLOYING DIGITAL WATERMARKING**  
**DISPOSITIFS PORTATIFS ET PROCEDES UTILISANT UN MARQUAGE NUMERIQUE**

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except: US

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200227431 A2-A3 20020404 (WO 0227431)

Application: WO 2001US30238 20010926 (PCT/WO US0130238)

Priority Application: US 2000670115 20000926

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CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE

SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06K-009/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14287

English Abstract

Portable consumer electronic devices featuring image- or audio-capture capabilities, such as cell phones, wristwatches, digital cameras, personal digital assistants, and MP3 players, are becoming increasingly prevalent. **Watermark** information embedded in the captured content can be used to trigger distribution of corresponding content (web pages, high fidelity audio, etc.) from on-line repositories. Thus for example, music "heard" by a user's cell phone microphone (10) can be processed and used to trigger the electronic delivery of a high fidelity version (20) of the same (or different) music to the portable device (22) or to the user's home computer (22). Likewise, an object "shown" to a cell phone camera (10) can initiate a link to a corresponding web page, launch a corresponding application program, or otherwise control the device. The **watermark** can be decoded from the content in the consumer device, or the content can be transferred to a remote device (14) for decoding.

Legal Status (Type, Date, Text)

Publication 20020404 A2 Without international search report and to be  
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Search Rpt 20020704 Late publication of international search report

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Examination 20021128 Request for preliminary examination prior to end of  
19th month from priority date



**PORTABLE DEVICES AND METHODS EMPLOYING DIGITAL WATERMARKING**

Patent Applicant/Assignee:

**DIGIMARC CORPORATION...**

Fulltext Availability:

Detailed Description

Claims

English Abstract

...cell phones, wristwatches, digital cameras, personal digital assistants, and MP3 players, are becoming increasingly prevalent.

**Watermark** information embedded in the captured content can be used to trigger distribution of corresponding content...

...a corresponding web page, launch a corresponding application program, or otherwise control the device. The **watermark** can be decoded from the content in the consumer device, or the content can be...

5/5,K/5 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00863531 \*\*Image available\*\*

**SYSTEM AND METHOD OF PROVIDING AND AUTHENTICATING WORKS OF AUTHORSHIP BASED ON WATERMARK TECHNIQUE**

**SYSTEME ET PROCEDE DE FOURNITURE ET D'AUTHENTIFICATION D'OEUVRES DE L'ESPRIT EN FONCTION DE TECHNIQUES DE FILIGRANE**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200197128 A1 20011220 (WO 0197128)

Application: WO 2001KR997 20010611 (PCT/WO KR0100997)

Priority Application: KR 200031945 20000610

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: Korean

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8876

#### English Abstract

The supply of works of authorship and their authentication are provided by a service system and method for supplying and authenticating digital data works of authorship based on a **watermarking** system. The works of authorship including invisible information on a copyright is provided through this system. In the event that illegal use of original works of authorship is sensed, the illegal copy and use of multimedia contents could be prevented by presenting accurate technical evidence to support the information on a copyright through authentication of an authentication organization and thereby the protection of a copyright is possible. Authentication of a copyright of the contents is performed by the steps of imbedding and extracting of a digital **watermark** such as a logo or signature of a copyright holder on a data.

Legal Status (Type, Date, Text)

Publication 20011220 A1 With international search report.

Examination 20020502 Request for preliminary examination prior to end of 19th month from priority date

#### SYSTEM AND METHOD OF PROVIDING AND AUTHENTICATING WORKS OF AUTHORSHIP BASED ON WATERMARK TECHNIQUE

Fulltext Availability:

Detailed Description

Claims

#### English Abstract

...system and method for supplying and authenticating digital data works of authorship based on a **watermarking** system. The works of authorship including invisible information on a copyright is provided through this ...

...of the contents is performed by the steps of imbedding and extracting of a digital **watermark** such as a logo or signature of a copyright holder on a data.

#### Detailed Description

SYSTEM AND METHOD OF PROVIDING AND AUTHENTICATING WORKS OF AUTHORSHIP BASED ON **WATERMARK** TECHNIQUE

Technical Field

The present invention relates to a service system and method for supply ...

...mark)ng and authenticating a copyright based on a method and device, in which a **watermark** is embedded into the data of a digital content (digital image, digital audio, digital video, digital document, etc.) and the embedded **watermark** is extracted. More particularly, this invention relates to a service system and method for supplying...

...data by selling or providing data, in which copyright information is hidden in an image **watermark** form, to users on the internet, and settling copyright-involved distribution by using an authentication...

...by which an encrypted data is available to offly a specific user and a digital **watermarking** technique where copyright information is hidden in data, which data is then transmitted to a user without the data being deformed outwardly.

Among these technical solutions, as a **watermarking** is a copyright protection technique of digital data, it can be considered a copyright indication...

...holder by hiding copyright information in data and extracting again the hidden copyright information.

As **watermarking** embedding methods, there are provided a Spatial Method in which a subtle transformation is applied...

...data such as pixels of a screen and the like to be used as a **watermark**; Discrete Cosine Transform (DCT) in which digital-type data are converted to analog signals of frequency components and then a **watermark** converted by the same method is embedded; Fast Fourier Transform (FFT); and a Frequency Domain Method using wavelet transform.

A **watermarking** technique adopted by the present invention for copyright protection is to embed a "mark" which protects the original information. Such method is divided into a visible **watermarking** technique perceptible to the human eye and an invisible **watermarking** technique imperceptible to the human eye.

As the visible **watermarking** technique is a type of overwriting copyright information on the original, it generally prevents a...

5/5,K/6 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00827978 \*\*Image available\*\*

**WATERMARK ENCODER AND DECODER ENABLED SOFTWARE AND DEVICES**  
**LOGICIELS ET DISPOSITIFS ACTIVES PAR DES CODEURS ET DES DECODEURS DE**  
**FILIGRANE**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US4812 20010214 (PCT/WO US0104812)  
Priority Application: US 2000183681 20000217; US 2000191778 20000324; US  
2000636102 20000810

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DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
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(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
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Detailed Description  
Claims  
Fulltext Word Count: 17935

English Abstract

**Watermark** encoders and decoders are integrated into operating systems, Internet browsers (300), media players, and other applications and devices. Such integration enables the **watermark** -enabled application (304) or device to provide additional functionality and information (302) available via the **watermark** . The **watermark** , for example, may link to metadata or actions related to a media object. To exploit this **watermark** enabled functionality, the integrated application uses a **watermark** decoder to access the related metadata and actions. The user interface of the integrated application is enhanced to present metadata and actions linked via the **watermark** . Similarly, **watermark** encoders may be integrated into applications to convert media objects into enhanced, **watermarked** objects.

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Republication 20021031 A1 With international search report.

**WATERMARK ENCODER AND DECODER ENABLED SOFTWARE AND DEVICES**

Patent Applicant/Assignee:

**DIGIMARC CORPORATION...**

Fulltext Availability:

Detailed Description

Claims

English Abstract

**Watermark** encoders and decoders are integrated into operating systems, Internet browsers (300), media players, and other applications and devices. Such integration enables the **watermark** -enabled application (304) or device to provide additional functionality and information (302) available via the **watermark** . The **watermark** , for example, may link to metadata or actions related to a media object. To exploit this **watermark** enabled functionality, the integrated application uses a **watermark** decoder to access the related metadata and actions. The user interface of the integrated application is enhanced to present metadata and actions linked via the **watermark** . Similarly, **watermark** encoders may be integrated into applications to convert media objects into enhanced, **watermarked** objects.

Detailed Description

... the begin- with international search report ning of each regular issue of the PCT Gazette.

**WATERMARK ENCODER AND DECODER ENABLED SOFTWARE AND DEVICES**

Related Application Data

This patent application claims priority...

...patent application is also related to US Patent Applications 09/525,865 entitled Integrating Digital **Watermarks** into Multimedia Content filed March 15, 2000, 09/563,664 entitled Connected Audio and Other...

...Technical Field

The invention relates to digital watermarking, and specifically relates to applications of digital **watermark** encoders and decoders in software and devices.

Background and Summary

Digital watermarking is a process...

...line, word or character shifting), software, multi-dimensional graphics models, and surface textures of objects.

Digital **watermarking** systems typically have two primary components: an encoder that embeds the **watermark** in a host media signal, and a decoder that detects and reads the embedded **watermark** from a signal suspected of containing a **watermark** (a suspect signal). The encoder embeds a **watermark** by altering the host media signal.

5/5,K/7 (Item 6 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00486184 \*\*Image available\*\*

**METHOD FOR GENERATING AND VERIFYING DIGITAL WATERMARKS AND FOR EXCHANGING DATA CONTAINING DIGITAL WATERMARKS**  
**PROCEDE DE GENERATION ET DE VERIFICATION DE FILIGRANES NUMERIQUES ET D'ECHANGE DE DONNEES CONTENANT DES FILIGRANES NUMERIQUES**

Patent Applicant/Assignee:

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HERRIGEL Alexander,  
O'RUANAIDH Joseph J K,  
PUN Thierry,

Inventor(s):

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PUN Thierry,

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Priority Application: EP 97810708 19970926

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FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG  
US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT  
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA  
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Main International Patent Class: H04N-001/32

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Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 17664

English Abstract

A method for generating digital **watermarks** and for exchanging data containing such **watermarks** is described. It is based on a **watermarking**

technique which is robust against image transformation techniques such as compression, rotation, translation, scaling and/or change of proportion. It uses modulation of the magnitude components in Fourier space and adds/reads a template in the log-polar or log-log transform of the magnitude components. The template is used for analyzing scaling and rotation or change of proportion. In addition, the system applies cryptographic protocols and public key techniques for both, encoding the **watermark** and transferring **watermarked** data. Preferably, an author (CH) encodes the **watermark** using an asymmetric cryptographic key pair provided by a public key infrastructure (PKI) and registers the **watermarked** data at a trusted registration party (CCC) before transmitting the data to a receiving party (B). The latter can use the public key infrastructure (I) for verifying authorship. Data exchanged by the parties are encrypted using the cryptographic keys. In addition, image (video) originality verification is supported by the same asymmetric key pair as for content protection and for copyright protection.

#### METHOD FOR GENERATING AND VERIFYING DIGITAL WATERMARKS AND FOR EXCHANGING DATA CONTAINING DIGITAL WATERMARKS

Fulltext Availability:

Detailed Description

Claims

English Abstract

A method for generating digital **watermarks** and for exchanging data containing such **watermarks** is described. It is based on a **watermarking** technique which is robust against image transformation techniques such as compression, rotation, translation, scaling and...

...In addition, the system applies cryptographic protocols and public key techniques for both, encoding the **watermark** and transferring **watermarked** data. Preferably, an author (CH) encodes the **watermark** using an asymmetric cryptographic key pair provided by a public key infrastructure (PKI) and registers the **watermarked** data at a trusted registration party (CCC) before transmitting the data to a receiving party...

Detailed Description

Method for generating and verifying digital **watermarks** and for exchanging data containing digital **watermarks**

Cross References to Related Applications

This application claims the priority of European patent application...

...its entirety.

Technical Field

The present invention relates to methods for generating and verifying digital **watermarks** and for transmitting data containing digital **watermarks** according to the preamble of the independent claims.

Background Art

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Digital **watermarking** is a method for marking data sets, such as images, sound or video. A digital...

...s usability but that

25 can be detected using dedicated analysis software or ap

paratus. **Watermarking** can e.g. be used for marking  
authorship or ownership of a data set. It...

...of originality refers to the  
30 degree of contents modification suffered by the image.

5/5,K/8 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00450375 \*\*Image available\*\*

**AN AUTOMATED DOCUMENT PROCESSING SYSTEM USING FULL IMAGE SCANNING**  
**SYSTEME AUTOMATISE DE TRAITEMENT DE DOCUMENTS A LECTURE OPTIQUE PLEIN CADRE**

Patent Applicant/Assignee:

CUMMINS-ALLISON CORP,

Inventor(s):

JONES John E ,  
JONES William J,  
MENNIE Douglas U,  
JONES Paul A

Patent and Priority Information (Country, Number, Date):

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MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN YU  
ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK  
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TD TG

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Publication Language: English

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Detailed Description

Claims

Fulltext Word Count: 66302

English Abstract

A document processing system comprises an input receptacle for receiving documents. A transport mechanism (18) receives the documents from the input receptacle (16) and transports the documents past a full image scanner (12) and a discrimination unit (14). An output receptacle (20) receives the documents from the transport mechanism (18) after being transported past the full image scanner (12) and the discrimination unit (14). The full image scanner (12) includes means for obtaining a full video image of said documents, means for obtaining an image of a selected area of said documents, and means for obtaining information contained in said selected area of said document. The discrimination unit (14) includes means for determining the authenticity of said document. A system controller (10) directs the flows of documents over the transport mechanism.

Inventor(s):

JONES John E ...

Fulltext Availability:

Detailed Description

Detailed Description

... communicate.

Another image processing network is described in connection with FIG. Iv.

In this network, **gateways** are used to connect networks which have different network architectures. **Gateways** use all seven layers of the OSI model and perform protocol conversion functions at the ring interface coupler (TIC) **gateway** 6150b. TIC **gateway** 6150b provides connections to token ring networks 6156, 6160, and 6164 which include other full image scanners.

The highest performance LAN **gateway** is the link between a token-ring network 6156 and the image processing device's FEP 6105a via the TIC **gateway** 6150b. The TIC 6150b permits a 4 mbps or 16 mbps connection depending upon the...

...any units on the token-ring network 6156.

The network also contains a remote LAN **gateway** which functions as a **gateway** to another token ring LAN 6162. For example, the **gateway** 6161 functions as a cluster controller and communicates with the FEP using EBM's SDLC...

...protocol and contain full image scanners) can also communicate with the host via X.25 **gateways**. A **gateway** 6151 with an adapter card functions as a cluster controller and runs special **gateway** 6151 software that runs over a given protocol and communicates with the X.25 network. A local coaxial **gateway** 6160 is also provided which allows a workstation on the LAN to emulate a distributed...

...terminal (DFT) mode of processing.

It should be realized that the units connected to particular **gateways** are in no way limited to use with a particular **gateway**. In fact, the **gateways** and units can be interchanged and other types of equipment can be used to structure...of currency include electrical conductivity sensing, capacitive sensing (U.S. Pat. No. 5,122,754 [ **watermark** , security thread]; 3,764,899 [thickness]; 3,815,021 [dielectric properties]; 5,151,607 [security...]